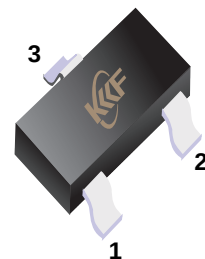


2SC4617

■ NPN Transistor



1.Base
2.Emitter
3.Collector

■ Simplified outline(SOT-523)

■ Features

- Collector Current Capability $I_C=0.15A$
- Collector Emitter Voltage $V_{CEO}=50V$
- Low Cob: Cob=2.0pF(Typ)
- Complement to 2SA1774

■ Absolute Maximum Ratings $T_a = 25^\circ C$

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V_{CBO}	60	V
Collector - Emitter Voltage	V_{CEO}	50	
Emitter - Base Voltage	V_{EBO}	7	
Collector Current - Continuous	I_C	150	mA
Collector Power Dissipation	P_C	150	mW
Junction Temperature	T_J	150	$^\circ C$
Storage Temperature Range	T_{stg}	-55 to 150	

■ Electrical Characteristics $T_a = 25^\circ C$

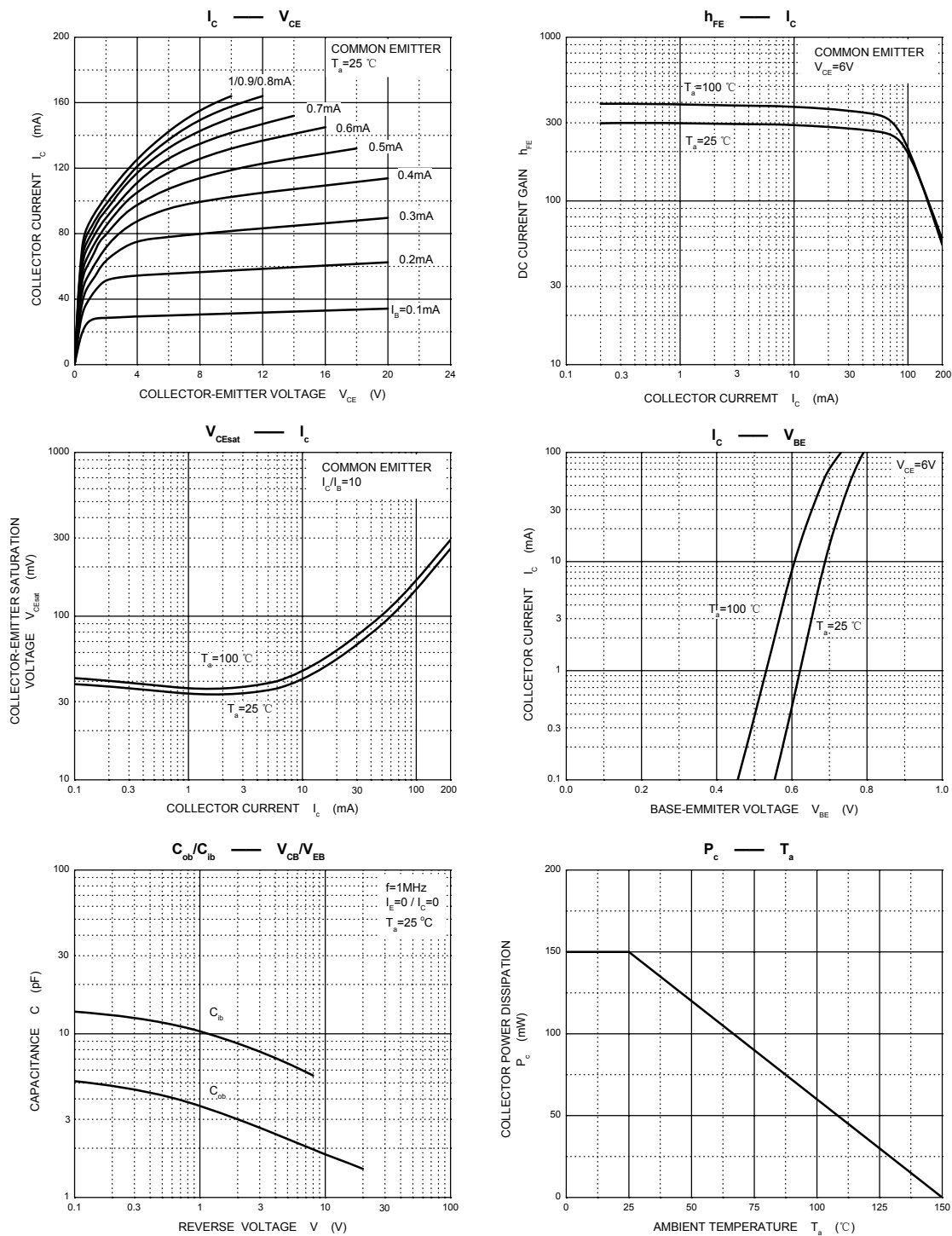
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	V_{CBO}	$I_C = 100 \mu A, I_E = 0$	60			V
Collector- emitter breakdown voltage	V_{CEO}	$I_C = 1 mA, I_B = 0$	50			
Emitter - base breakdown voltage	V_{EBO}	$I_E = 100 \mu A, I_C = 0$	7			
Collector-base cut-off current	I_{CBO}	$V_{CB} = 60 V, I_E = 0$			100	nA
Emitter cut-off current	I_{EBO}	$V_{EB} = 7 V, I_C = 0$			100	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = 50 mA, I_B = 5 mA$			0.4	V
Base - emitter saturation voltage	$V_{BE(sat)}$	$I_C = 50 mA, I_B = 5 mA$			1.2	
DC current gain	h_{FE}	$V_{CE} = 6 V, I_C = 1 mA$	120		560	
Collector output capacitance	C_{ob}	$V_{CB} = 12 V, I_E = 0, f = 1 MHz$			3.5	pF
Transition frequency	f_T	$V_{CE} = 12 V, I_C = 2 mA, f = 100 MHz$		180		MHz

■ Classification of h_{FE}

Marking	2SC4617-Q	2SC4617-R	2SC4617-S
Marking	120-270	180-390	270-560
Marking	BQ	BR	BS

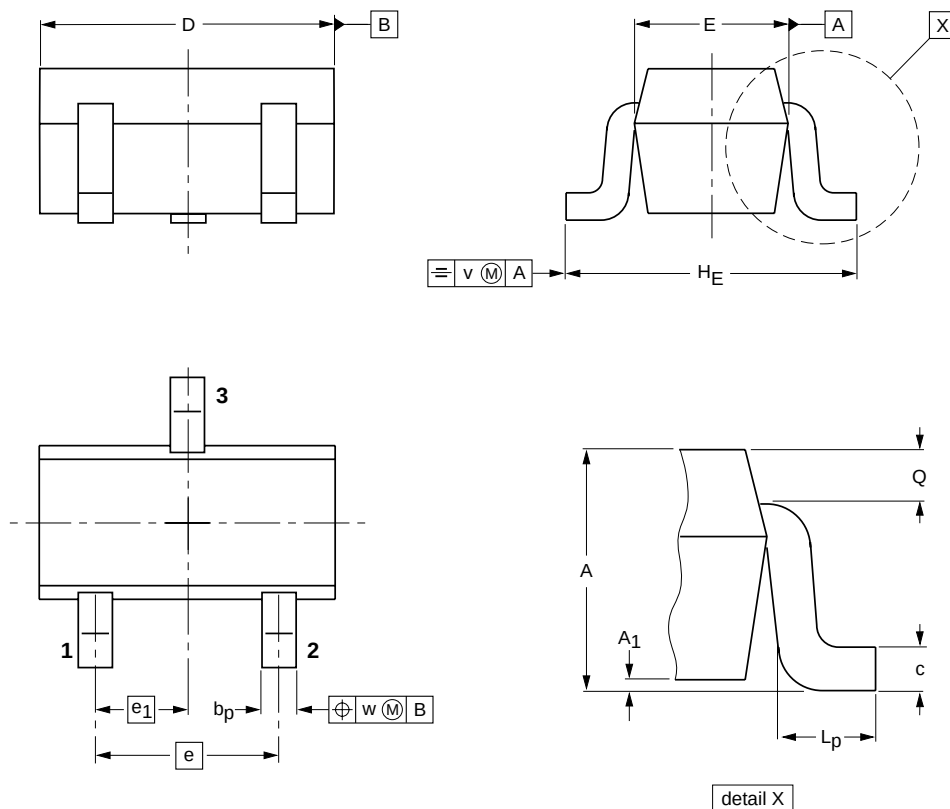
2SC4617

Typical Characteristics



2SC4617

■ SOT-523



DIMENSIONS (mm are the original dimensions)

UNIT	A	A ₁ max	b _p	c	D	E	e	e ₁	H _E	L _p	Q	v	w
mm	0.95 0.60	0.1	0.30 0.15	0.25 0.10	1.8 1.4	0.9 0.7	1	0.5	1.75 1.45	0.45 0.15	0.23 0.13	0.2	0.2